

1. The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.

★

FIGURE 2B

1150	1170	1190
TGCCTTCCTCAGCCGAGCAGCACCTGGGGCTCCAGCTGCTGGAAATCCTACCATCCCAG		
1210	1230	1250
GAGGCAGGCACAGCCAGGGAGAGGGGAGGAGTGGGCAGTGAAGATGAAGCCCCATGCTCA		
1270	1290	1310
GTCCCCCTCCCATCCCCCACGAGCTCCACCCAGTCCCAAGCCACCAGCTGTCTGCTCCT		
1330	1350	1370
GGTGGGAGGTGGCCTCCTCAGCCCCCTCTCTGACCTTTAACCTCACTCTCACCTTGCA		
1390	1410	1430
CCGTGCACCAACCCCTTCACCCCTCCTGGAAAGCAGGCCTGATGGCTTCCCACTGGCCTCC		
1450	1470	1490
ACCACCTGACCAGAGTGTTCTCTTCAGAGGACTGGCTCCTTTCCCACTGTCTTAAAAATA		
1510	1530	
AAGAAATGAAAATGCTTGTTGGCAAAAAAAAAAAAAAAAAAAAAA		

663020" 6203650

FIGURE 3A

10 30 50
 ACACCAGTCTTTGGGGCCAGTGCCTCAGTTTCAATCCAGGTAACCTTTAAATGAAACTTG
 70 90 110
 CCTAAATCTTAGGTCATACACAGAAGAGACTCCAATCGACAAGAAGCTGGAAAAGAATG
 130 150 170
 ATGTTGTCCTTAAACAACCTACAGAATATCATCTATAACCCGGTAATCCCGTTTGTGGC
 M L S L N N L Q N I I Y N P V I P F V G
 190 210 230
 ACCATTCTGATCAGCTGGATCCTGGAACCTTTGATTGTGATACGTGGGCATGTTCTAGT
 T I P D Q L D P G T L I V I R G H V P S
 250 270 290
 GACGCAGACAGATTCCAGGTGGATCTGCAGAATGGCAGCAGTGTGAAACCTCGAGCCGAT
 D A D R F Q V D L Q N G S S V K P R A D
 310 330 350
 GTGGCCTTTTCATTTCAATCCTCGTTTCAAAGGGCCGGCTGCATTGTTTGCAATACTTTG
 V A F H F N P R F K R A G C I V C N T L
 370 390 410
 ATAAATGAAAAATGGGGACGGGAAGAGATCACCTATGACACGCCTTTCAAAGAGAAAAAG
 I N E K W G R E E I T Y D T P F K R E K
 430 450 470
 TCTTTTGAGATCGTGATTATGGTGCTAAAGGACAAATTCCAGGTGGCTGTAAATGGAAAA
 S F E I V I M V L K D K F Q V A V N G K
 490 510 530
 CATACTCTGCTCTATGGCCACAGGATCGGCCACAGAGAAAATAGACACTCTGGGCATTTAT
 H T L L Y G H R I G P E K I D T L G I Y
 550 570 590
 GGCAAAGTGAATATTTCACTCAATTTGGTTTCTAGCTTCAGCTCGGACTTACAAAGTACCCAA
 G K V N I H S I G F S F S S D L Q S T Q
 610 630 650
 GCATCTAGTCTGGAACTGACAGAGATAGTTAGAGAAAATGTTCCAAAGTCTGGCAGCCCC
 A S S L E L T E I V R E N V P K S G T P
 670 690 710
 CAGCTTAGCCTGCCATTTCGCTGCAAGGTTGAACACCCCCATGGGCCCTGGACGAACTGTC
 Q L S L P F A A R L N T P M G P G R T V
 730 750 770
 GTCGTTAAAGGAGAAGTGAATGCAAATGCCAAAAGCTTTAATGTTGACCTACTAGCAGGA
 V V K G E V N A N A K S F N V D L L A G
 790 810 830
 AAATCAAAGGATATTGCTCTACACTTGAACCCACGCCTGAATATTAAAGCATTGTGAGA
 K S K D I A L H L N P R L N I K A F V R
 850 870 890
 AATTCTTTTCTTCAAGAGTCTGGGGAGAAGAAGAGAGAAATATTACCGCTTTCCCATTT
 N S F L Q E S W G E E E R N I T A F P F
 910 930 950
 AGTCCTGGGATGTACTTTGAGATGATAATTTATTGTGATGTTAGAGAATTCAAGGTTGCA
 S P G M Y F E M I I Y C D V R E F K V A
 970 990 1010
 GTAAATGGCGTACACAGCCTGGAGTACAAACACAGATTTAAAGAGCTCAGCAGTATTGAC
 V N G V H S L E Y K H R F K E L S S I D
 1030 1050 1070
 ACGCTGGAATTAATGGAGACATCCACTTACTGGAAGTAAGGAGCTGGTAGCCTACCTAC
 T L E I N G D I H L L E V R S W *

09263609-030500
 09263609-030500

FIGURE 3B

1090	1110	1130
ACAGCTGCTACAAAAACCAAATACAGAATGGCTTCTGTGATACTGGCCTTGCTGAAACG		
1150	1170	1190
CATCTCACTGTCATTCTATTGTTTATATTGTTAAATGAGCTTGTGCACCATTAGGTCCT		
1210	1230	1250
GCTGGGTGTTCTCAGTCCTTGCCATGAAGTATGGTGGTGTCTAGCACTGAATGGGGAAAC		
1270	1290	1310
TGGGGGCAGCAACACTTATAGCCAGTTAAAGCCACTCTGCCCTCTCTCCTACTTTGGCTG		
1330	1350	1370
ACTCTTCAAGAATGCCATTCAACAAGTATTTATGGAGTCCTACTATATACAGTAGCTAAC		
1390	1410	1430
ATGTATTGAGCACAGATTTTTTTGGTAAACCTGTGAGGGCTAGGGTATATCCTTGGGAAC		
1450	1470	
AAACCAGAATGTCCTGTCCCTTGAAAAAAAAAAAAAAAA		

0923559.030509

THE UNIVERSITY OF CHICAGO

Figure 4B

CTACAAAACCAAAATACAGAATGGCTTCTGTGATACTGGCCTTGCTGAAACGCAAAAAA
AAAAAAAAAAAAAAAAA

5926369.030599

Percent Similarity: 84.422 Percent Identity: 71.357

```

2  MLSLSNLLQNIITYNPVIFPVFGTIPDQLDQGLTVIRGHVPSADRFQVDLQ 51
   |||.|||||||.||:|:|.|||.|||||||.||:||||:|
1  MLSLSNLLQNIITYNPITPYVSTITEQLKPGSLIVIRGHVVKDSERFQVDQ 50
   |||.|||||||.||:|:|.|||.|||||||.||:||||:|

52 NGSSMKPRADVAHFHFNPRFKRAGCIVCNTLINEKWGREETIDTTPFKREK 101
   :|.||:|||||||.|||.|||||.||||:|:|.||| ||:|:|
51 HGNSLKPRADVAHFHFNPRFKRSNCIVCNTLINEKWGWEEITHDMPFKREK 100
   |||.|||||||.||:|:|.|||.|||||||.||:||||:|

102 SFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGVKNIHSIGF 151
   |||.|||||||.||:|:|.|||.|||||||.||:||||:|
101 SFEIVIMVLKNKFHVAVNGKHILLYAHNRINPEKIDTLGIFGVKNIHSIGF 150
   |||.|||||||.||:|:|.|||.|||||||.||:||||:|

152 SFSSDLQSTQASSLELTEISRENVPKSGTPQL.VSIFAWVISC....GI 195
   .||||| | :|.||:|:|:|:|:|:|:|:| :| :| :| :| :| :|
151 RFSSDLQSMETSTLGLTQISKENIQSGKLHLSLPFEARLNASMGPGRTV 200
   |||.|||||||.||:|:|.|||.|||||||.||:||||:|

196 FYKVA 200
   .|.
201 VVKGE 205

```

0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Galectin10.aa
x
Galectin10SV.aa

```

Gal-10      1 MMLSLNNLNQNIITYNPVPIPFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDL 50
          |||
Gal-10SV    1 MMLSLNNLNQNIITYNPVPIPFVGTIPDQLDPGTLIVIRGHVPSDADRFQVDL 50

Gal-10      51 QNGSSVKPRADVAHFHFNPRFKRAGCIVCNTLINEKWGREEITYDTPFKRE 100
          |||:|||||
Gal-10SV    51 QNGSSMKPRADVAHFHFNPRFKRAGCIVCNTLINEKWGREEITYDTPFKRE 100

Gal-10      101 KSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGVNIHSIG 150
          |||
Gal-10SV    101 KSFEIVIMVLKDKFQVAVNGKHTLLYGHRIGPEKIDTLGIYGVNIHSIG 150

Gal-10      151 FSFSSDLQSTQASSLELTEIVRENVPKSGTPQLSLPFAARLNTMPMGPGRT 200
          |||
Gal-10SV    151 FSFSSDLQSTQASSLELTEISRENVPKSGTPQLVSIFAWVISCGIFYKVA 200

Gal-10      201 VVVKGEVNANAKSFNVDLLAGKSKDIALHLNPRNLKAFVRNSFLQESWG 250

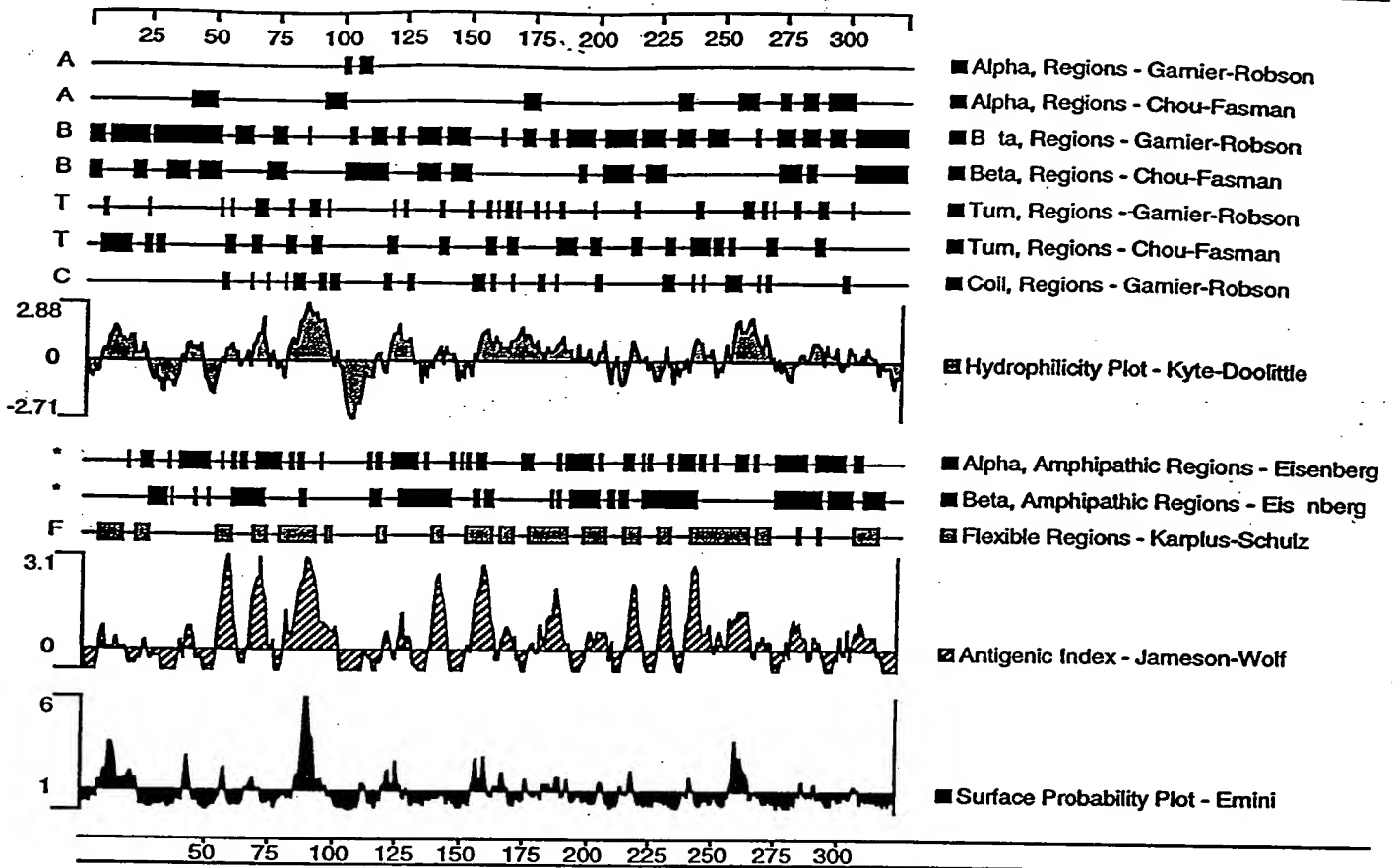
Gal-10      251 EEERNITAFPFSPGMYFEMIIYCDVREFKVAVNGVHSLEYKHRFKELSSI 300

Gal-10      301 DTLEINGDIHLLVRSW 317

```

SECRET

SECRET



SECRET

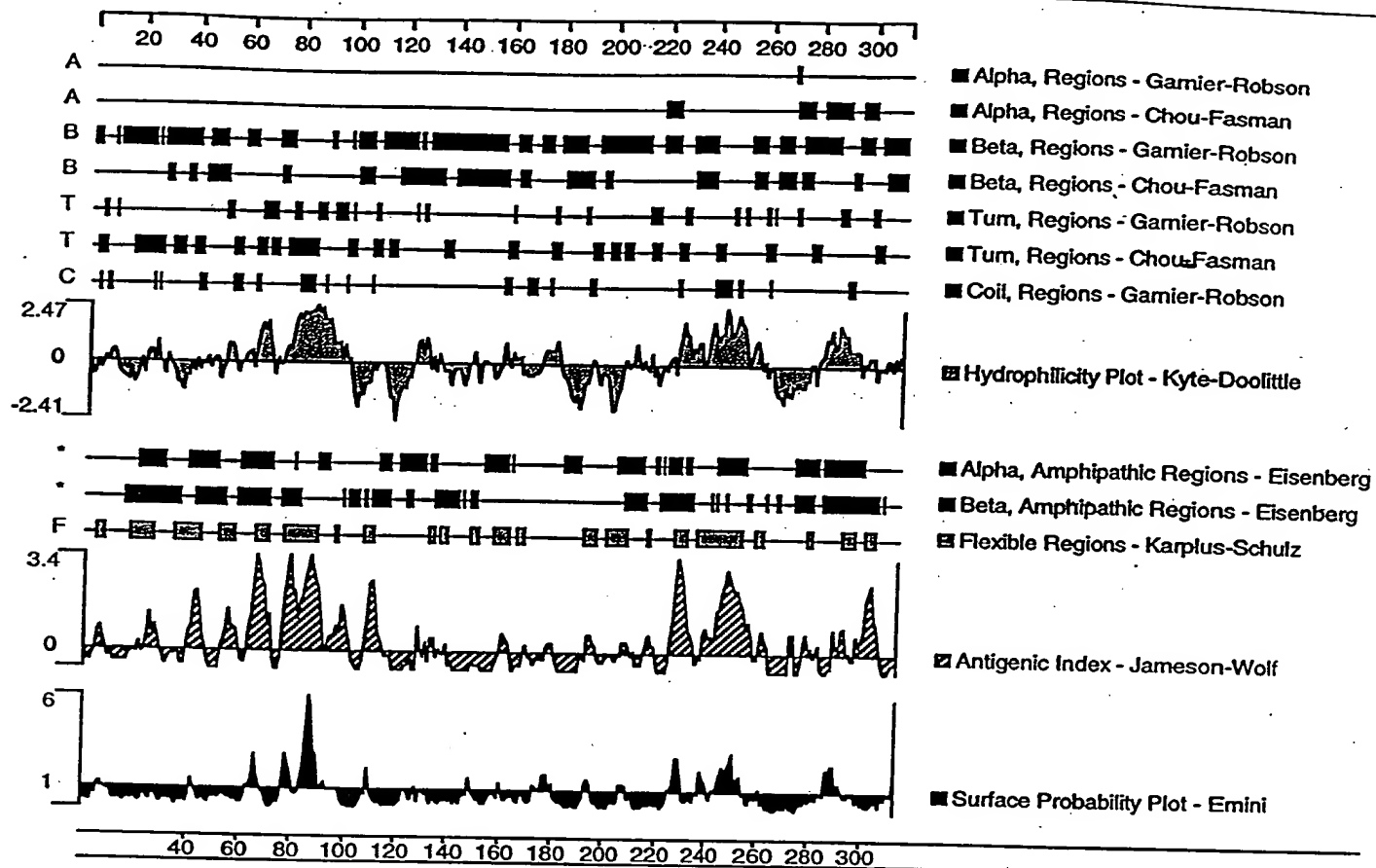
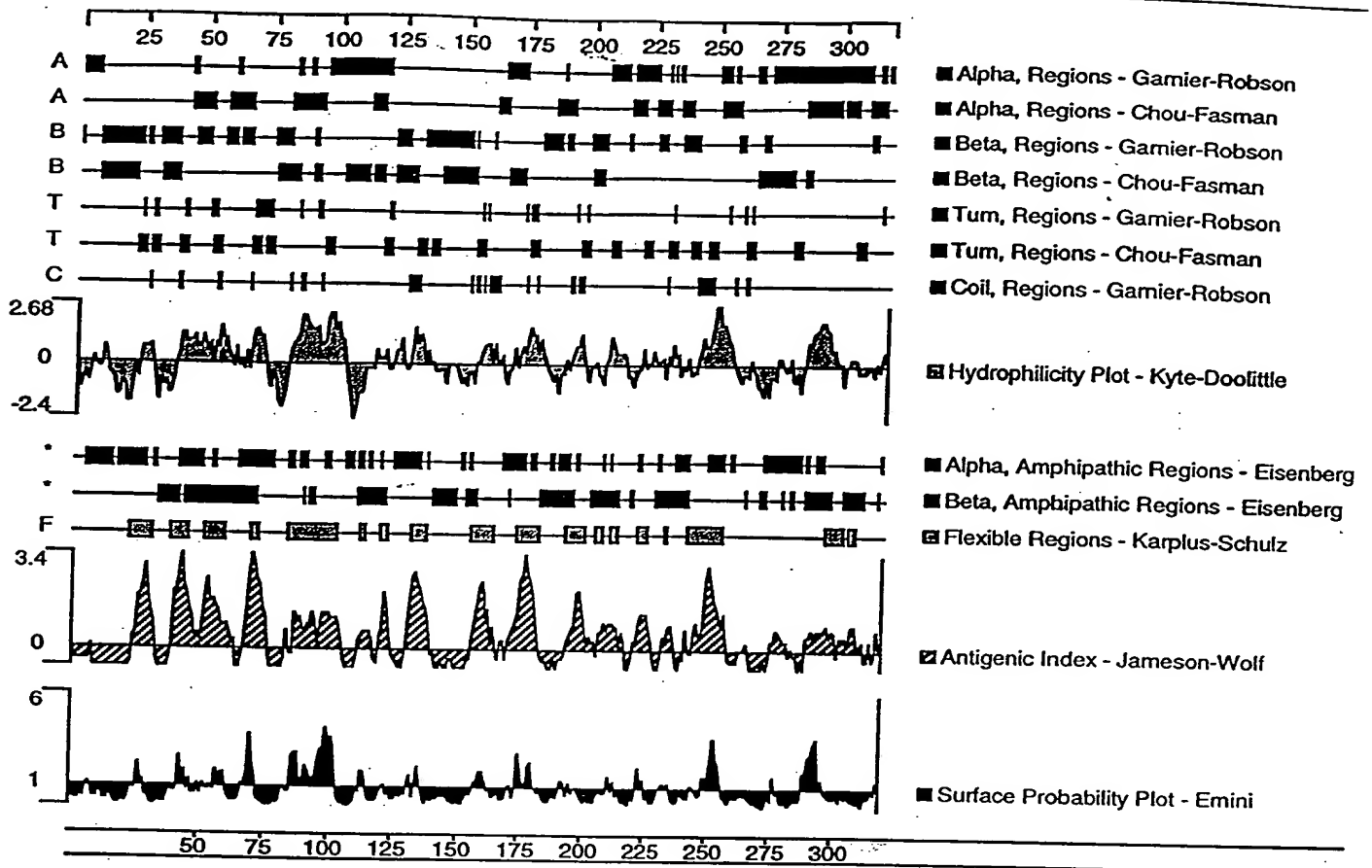


Figure 10



MS263600-030599

SECRET

